

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 79-4

NPDES PERMIT NO. CA0005797

WASTE DISCHARGE REQUIREMENTS FOR:

SHELL OIL COMPANY
SOUTH SAN FRANCISCO PIPELINE TERMINAL
SAN MATEO COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. Shell Oil Company, South San Francisco Pipeline Terminal, (hereinafter discharger) by application dated September 8, 1978, has applied for renewal of waste discharge requirements and a permit to discharge waste under the National Pollutant Discharge Elimination System.
2. The discharger discharges stormwater containing pollutants from its petroleum products terminal into an unnamed tidal channel tributary to central San Francisco Bay, both waters of the United States. The discharge occurs at a point approximately 2000 feet north of the intersection of San Bruno Avenue and South Airport Blvd., in South San Francisco, California. Storm runoff from the terminal, originates both within and outside of the dikes surrounding the storage tanks, and is subject to contamination from spilled petroleum products. Washwater from the truck washing area is contained and discharged to the city sanitary sewer.
3. The discharge is presently governed by Waste Discharge Requirements, Order No. 74-29, which allow discharge to San Francisco Bay.
4. Waste No. 001, described in Order No. 74-29 as approximately 3 gallons per day of water which settles out of petroleum product storage tanks, has been eliminated and is now being discharged into the sanitary sewer system.
5. The Environmental Protection Agency (EPA) issued memoranda on July 26, 1976, and February 24, 1977, providing guidance on effluent standards applicable to all petroleum marketing terminals.
6. A Water Quality Control Plan for the San Francisco Bay Basin was adopted by the Board on April 8, 1975. The Basin Plan contains water quality objectives for San Francisco Bay.
7. The beneficial uses of the unnamed channel and affected areas of San Francisco Bay are:
 - a. Recreation
 - b. Fish migration and habitat
 - c. Habitat and resting for waterfowl and migratory birds
 - d. Industrial water supply
 - e. Esthetic enjoyment
 - f. Navigation

8. This project is exempt from the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.
9. The Board has notified the discharger and interested agencies and persons of its intent to revise waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
10. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

A. Discharge Prohibitions

B. Effluent Limitations

- a. The daily average oil and grease concentration in the discharge shall not exceed 30 mg/l. Daily average concentration limit for oil and grease shall be deemed exceeded if the analyses of any two representative grab samples taken at least six (6) hours apart each individually exceed 30 mg/l.
- b. pH
6.5 minimum
8.5 maximum
- c. Toxicity
None which would cause deleterious effects on aquatic biota, wildlife or waterfowl.

C. Receiving Water Limitations

1. The discharge shall not cause:
 - a. Floating, suspended or deposited macroscopic particulate matter or foam in waters of the State at any place.
 - b. Visible, floating, suspended or deposited oil or other products of petroleum origin in waters of the State at any place.
 - c. Toxicity in waters of the State at levels that impair any of the protected beneficial water uses or make aquatic life or wildlife unfit or unpalatable for human consumption.
2. This discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Regional Board or the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

D. Provisions

1. The requirements prescribed by this Order supersede the requirements prescribed by Order No. 74-29, adopted by the Board on April 16, 1974. Order No. 74-29 is hereby rescinded.
2. The discharger shall comply with all effluent and receiving water limitations, prohibitions, and provisions of this Order immediately upon adoption.
3. The discharger shall comply with the attached Self-Monitoring and Reporting Program as ordered by the Executive Officer.
4. The discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements," dated April 1977, except A.5, A.12, and B.5.
5. This Order expires January 16, 1983. The discharger must file a report of waste discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Administrative Code, not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.

6. This Order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Water Pollution Control Act or amendments thereto, and shall become effective ten (10) days after date of its adoption provided the Regional Administrator, Environmental Protection Agency, has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on January 16, 1979.

FRED H. DIERKER
Executive Officer

Attachments:

Standard Provisions & Reporting
Requirements, April 1977

Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

Shell Oil Company

South San Francisco Pipeline Terminal

San Mateo County

NPDES NO. CA 0005797

ORDER NO. 79-4

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Section 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as self-monitoring program, are: (1) to document compliance with waste discharge requirements and prohibitions established by this Regional Board, (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge, (3) to develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards of performance, pretreatment and toxicity standards, and other standards, and (4) to prepare water and wastewater quality inventories.

B. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the latest edition of Standard Methods for the Examination of Water and Wastewater prepared and published jointly by the American Public Health Association, American Water Works Association, and Water Pollution Control Federation, or other methods approved and specified by the Executive Officer of this Regional Board. (See APPENDIX E.)

Water and waste analyses shall be performed by a laboratory approved for these analyses by the State Department of Health or a laboratory approved by the Executive Officer. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

C. DEFINITION OF TERMS

1. A grab sample is defined as an individual sample collected in fewer than 15 minutes.
2. Standard Observations
 - a. Waste Effluent
 - (1) Floating and suspended material of waste origin (to include oil, grease, algae, and other macroscopic particulate matter): presence or absence.
 - (2) Odor: presence or absence, characterization, source, distance of travel.

D. SCHEDULE OF SAMPLING, ANALYSES, AND OBSERVATIONS

The discharger is required to perform observations, sampling, and analyses according to the schedule in Table I with the conditions that grab samples of effluent shall be collected during periods of maximum peak flows, unless otherwise stipulated.

E. RECORDS TO BE MAINTAINED

1. Written reports, calibration and maintenance records, and other records shall be maintained at the waste treatment plant and shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board or Regional Administrator of the U. S. Environmental Protection Agency, Region IX. Such records shall show the following for each sample:
 - a. Identity of sampling and observation stations by number.
 - b. Date and time of sampling and/or observations.
 - c. Date and time that analyses are started and completed, and name of personnel performing the analyses.
 - d. Complete procedure used, including method of preserving sample and identity and volumes of reagents used. A reference to specific section of Standard Methods is satisfactory.
 - e. Calculations of results.
 - f. Results of analyses and/or observations.
2. A tabulation shall be maintained showing the total waste flow or volume for each day.
3. A tabulation relative to bypassing and accidental waste spills shall be maintained showing information items listed in Sections F-1 and F-2 for each occurrence.

F. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Spill Reports

A report shall be made of any spill of oil or other hazardous material. Spills shall be reported to this Regional Board and the U. S. Coast Guard by telephone immediately after occurrence. A written report shall be filed with the Regional Board within five (5) days and shall contain information relative to:

- a. nature of waste or pollutant,
- b. quantity involved,
- c. cause of spilling,

- d. estimated size of affected area,
- e. nature of effects (i.e., fishkill, discoloration of receiving water, etc.),

2. Self-Monitoring Reports

Written reports shall be filed regularly for each calendar quarter (unless specified otherwise) by the fifteenth day of the following month. The reports shall include.

a. Letter of Transmittal:

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include a discussion of requirement violations found during the past month and actions taken or planned for correcting violations, such as plant operation modifications and/or plant facilities expansion. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. Monitoring reports and the letter transmitting reports shall be signed by a principal executive officer at the level of vice-president or his duly authorized representative if such representative is responsible for the overall operation of the facility from which the discharge originates,

The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

b. Compliance Evaluation Summary

Each report shall be accompanied by a compliance evaluation summary sheet prepared by the discharger. The report format will be prepared using the example shown in APPENDIX A. The discharger will prepare the format using those parameters and requirement limits for receiving water and effluent constituents specified in his permit.

c. Map or aerial Photograph

A map or aerial photograph shall accompany the report showing sampling and observation station locations.

d. Results of Analyses and Observations

Tabulations of the results from each required analysis specified in Section G by date, time, type of sample, and station, signed by the laboratory director.

e. Effluent Data Summary

Summary tabulations of the data to include for flow rate and each constituent total number of analyses, maximum, minimum, and average values for each period.

f. List of Approved Analyses

- (1) Listing of analyses for which the discharger is approved by the State Department of Health.
- (2) List of analyses performed for the discharger by another approved laboratory (and copies of reports signed by the laboratory director of that laboratory shall also be submitted as part of the report).

3. Annual Reporting

By January 30 of each year, the discharger shall submit an annual report to the Regional Board covering the previous calendar year. The report shall contain a tabular summary of the monitoring data obtained during the previous year. In addition, the report shall contain a comprehensive discussion of the compliance record and the corrective actions taken or planned which may be needed to bring the discharger into full compliance with the waste discharge requirements. The report format will be prepared by the discharger using the examples shown in APPENDIX D and should be maintained and submitted with each regular self-monitoring report.

G. MONITORING SPECIFICATIONS

1. Description of Sampling Stations

a. Effluent

<u>Station</u>	<u>Description</u>
E-1	At any point in the 10" stormwater outfall pipe between the point of discharge to the tidal channel and the clarifier unit.

b. Land Observations

<u>Station</u>	<u>Description</u>
L-1 thru L-'n'	Located at points along the perimeter of the dikes surrounding the tank farm at equidistant intervals not to exceed 100 feet. (A sketch showing the locations of these stations will accompany each report.)

2. Schedule of sampling and Analysis

- a. The schedule of sampling and analysis shall be that given as Table I.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 79-4.
2. Was ordered by the Executive Officer on January 16, 1979, and becomes effective immediately.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

FRED H. DIERKER
Executive Officer

Attachment:
Table I

TABLE I
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES

NPDES # CA0005797

ORDER NO.

SAMPLING STATIONS	All L Sta.								
TYPE OF SAMPLES	G	O							
Oil & Grease (mg/l)	$\frac{1}{2}/$ M								
pH (units)	M $\frac{2}{}$								
All Applicable Standard Observations	M $\frac{2}{}$	M $\frac{3}{}$							

LEGEND FOR TABLE

TYPE OF SAMPLE

G = grab
O = observation

TYPE OF STATION

E = waste effluent
L = Land Observation

SAMPLING FREQUENCY

M = monthly

NOTES

1. The "daily average" limitation for oil and grease stated in the permit shall be deemed to have been exceeded if either:
 - a. The arithmetic average of the analyses of all representative samples taken during a calendar month by the discharger in accordance with the monitoring requirements set forth above exceeds 30 mg/l; or
 - b. The analyses of any two representative grab samples taken at least six (6) hours apart during any thirty (30) day period each individually exceed 30 mg/l.

Each sample taken by either the discharger or the Agency shall be presumed to be representative. However, due to the variability of the sampling and analysis of oil and grease discharged from petroleum marketing terminals, the discharger may in good faith declare a maximum of 10% of the samples taken by it during a calendar year, but not more than one sample taken during any calendar month, to be non-representative. No sample may be so excluded if it is the only sample taken by the discharger during a calendar month. Such a declaration must be included in writing with the next Monitoring Report submitted in accordance with the permit, and must include the results of the analysis of the excluded sample and a written explanation for the exclusion of that sample. If any sample is so excluded, the "daily average" concentration shall be arithmetic

NOTES -- continued

average of the analyses of the remaining non-excluded samples.

2. Observe during the first hour of runoff from the first daylight storm of each month.
3. Observations shall include the extent of oil or other products of petroleum origin existing within or floating upon water contained within the dikes.